

Figure Z

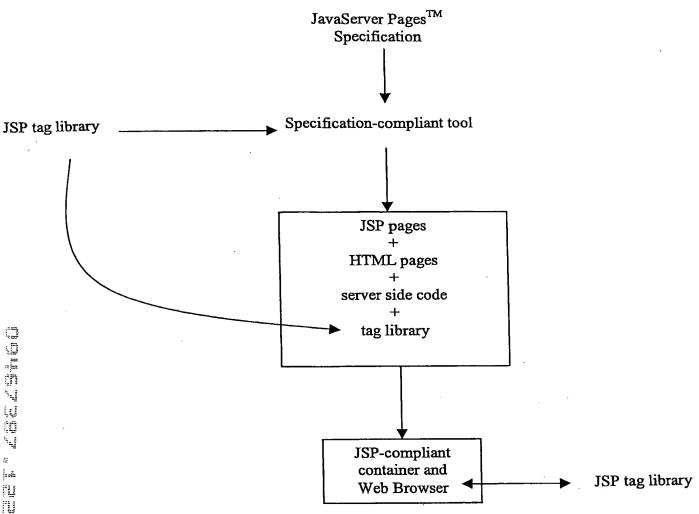


Figure 3

## JSP Page

```
stuff1
<foo>
       stuff2
</foo>
stuff3
                   translation
```

```
Java Code
```

```
class TheJSPPage {
 run ( request, response) {
       out.println("stuff1")
       k = new Closure (stuff2)
       f = new FooImpl(k)
       f.doIt (out)
        out.println("stuff3")
```

Tag Library

```
class FooImpl {
       FooImpl (Closure k) {
               this.k = k
       doIt(Stream out) {
               k.invokeClosure(out);
               // all this is pseudo-code
               // there is no Java mechanism
               // for this
        }
}
```

Figure 4

b = f.doStart()

if (b)

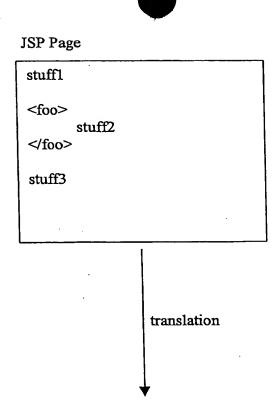
repeat: Evaluate the Body

b = f.doBody()

if (b) goto repeat

f.doEnd()

Fig. 5



## Java Code

```
class TheJSPPage {
  run ( request, response) {
    out.println("stuff1");
    boolean b;

    f = new FooImpl();
    b = f.doStart();
    if (b) {
  repeat:
        stuff2;
        b=f.doBody();
        if (!b) goto repeat;
        f.doEnd();
    }
    out.println("stuff3")
}
```

## Tag Library

```
class FooImpl {
    // data like "out" is available via
    // methods not shown here
    doStart() {
        // stuff to do on start
    }

    doBody() {
        // stuff to do after a body
        // evaluation
    }

    doEnd() {
        // stuff to do on end
    }
}
```

Figure 6